

Simplifying Non-Variable Radicals of Higher Degree

For this online quiz, copy the problems onto a sheet of paper and work them out by hand. Submit your written work in class after you use it to complete this online assessment.

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* Required

Last Name *

First Name *

1. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$\sqrt[3]{2187}$$

A. $9\sqrt[3]{3}$ *B.* $9\sqrt[3]{243}$ *C.* 3 *D.* 21

2. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$-2\sqrt[5]{864}$$

A. $-4\sqrt[5]{27}$ *B.* $-10\sqrt[5]{27}$ *C.* $-10\sqrt[5]{9}$ *D.* 54

3. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$4\sqrt[3]{-567}$$

A. $-12\sqrt[3]{10}$ *B.* $12\sqrt[3]{21}$ *C.* $-12\sqrt[3]{7}$ *D.* $-12\sqrt[3]{21}$

4. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$-5\sqrt[4]{336}$$

A. $-10\sqrt[4]{21}$ *B.* $-15\sqrt[4]{4}$ *C.* $-405\sqrt[4]{4}$ *D.* $15\sqrt[4]{4}$

5. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$\sqrt[3]{1080}$$

A. $3\sqrt[4]{40}$ *B.* $72\sqrt[3]{5}$ *C.* $6\sqrt[3]{5}$ *D.* $5\sqrt[3]{5}$

6. Please simplify the following with an exact value. *

- ☐ A
☐ B
☐ C
☐ D

$$6\sqrt[4]{1944}$$

A. $18\sqrt[4]{24}$ *B.* $18\sqrt[4]{8}$ *C.* $3\sqrt[4]{24}$ *D.* $18\sqrt{24}$

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